

<b>INFORMATION DISCLOSURE CITATION PTO-1449</b>		<b>ATTY. DOCKET NO.</b> 20434-758		<b>SERIAL NO.</b> To Be Assigned		J1049 U.S. PTO 10/033848 12/19/01	
		<b>APPLICANT</b> Islam					
		<b>FILING DATE</b> Herewith		<b>GROUP</b> Unknown			
<b>U.S. PATENT DOCUMENTS</b>							
EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
DM	4,063,106	12/113/77	Ashkin et al.	307	88.3		
<div style="border-left: 1px solid black; height: 100%; width: 10px;"></div>	4,685,107	8/4/87	Kafka et al.	372	6		
	4,740,974	4/26/88	Byron	372	3		
	5,039,199	8/13/91	Mollenauer et al.	359	334		
	5,050,183	9/17/91	Duling, III	372	94		
	5,058,974	10/22/91	Mollenauer	385	27		
	5,117,196	5/26/92	Epworth et al.	359	333		
	5,132,976	7/21/92	Chung et al.	372	6		
	5,134,620	7/28/92	Huber	372	6		
	5,191,586	3/2/93	Huber	372	6		
	5,191,628	3/2/93	Byron	385	27		
	5,218,655	6/8/93	Mizrahi	385	39		
	5,268,910	12/7/93	Huber	372	6		
	5,295,016	3/15/94	Van Deventer	359	347		
	5,323,404	6/21/94	Grubb	372	6		
	5,359,612	10/25/94	Dennis et al.	372	18		
	5,450,427	9/12/95	Fermann et al.	372	18		
<b>FOREIGN PATENT DOCUMENTS</b>							
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<b>EXAMINER</b> <u>Danielle Montblanc</u>				<b>DATE CONSIDERED</b> <u>6/30/02</u>			

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DM	5,473,622	12/5/95	Grubb	372	6					
	5,477,555	12/19/95	Debeau et al.	372	25					
	5,479,291	12/26/95	Smith et al.	359	333					
	5,485,481	1/16/96	Ventrudo et al.	372	6					
	5,497,386	3/5/96	Fontana	372	18					
	5,504,771	4/2/96	Vahala et al.	372	94					
	5,513,194	4/30/96	Froberg et al.	372	6					
	5,521,738	5/28/96	Froberg	359	184					
	5,530,710	6/25/96	Grubb	372	6					
	5,541,947	7/30/96	Mourou et al.	372	25					
	5,542,011	7/30/96	Robinson	385	24					
	5,577,057	11/19/96	Friskén	372	18					
	5,617,434	4/1/97	Tamura et al.	372	6					
	5,623,508	4/22/97	Grubb et al.	372	3					
	5,659,559	8/19/97	Ventrudo et al.	372	6					
	5,673,281	9/30/97	Byer	372	3					
	5,734,665	3/31/98	Jeon et al.	372	6					
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EXAMINER <u>Danielle Monbleau</u> DATE CONSIDERED <u>6/30/02</u>										

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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
DM	5,757,541	5/26/98	Fidric	359	341		
	5,838,700	11/17/98	Dianov et al.	372	6		
	5,841,797	11/24/98	Ventrudo et al.	372	6		
	5,847,862	12/8/98	Chraplyvy et al.	359	337		
	5,861,981	1/19/99	Jabr	359	341		
	5,880,866	3/9/99	Stolen	359	138		
	5,883,736	3/16/99	Oshima et al.	359	341		
	5,887,093	3/23/99	Hansen et al.	385	27		
	5,920,423	7/6/99	Grubb et al.	359	341		
	5,768,012	6/16/98	Zanoni et al.	359	341		
	5,673,280	9/30/97	Grubb et al.	372	3		
	5,659,644	8/19/97	DiGiovanni et al.	385	31		
	5,389,779	2/14/95	Betzig et al.	250	216		
	5,323,404	6/21/94	Grubb	372	6		
	5,226,049	7/6/93	Grubb	372	6		
	5,225,925	7/6/93	Grubb et al.	359	341		
	5,825,520	10/20/98	Huber	359	130		
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EXAMINER <u>Danielle Moulton</u>				DATE CONSIDERED <u>6/30/02</u>			

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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE	
pm	5,321,543	6/14/94	Huber	359	187		
/	5,301,054	4/5/94	Huber et al.	359	132		
	5,295,209	3/15/94	Huber	385	37		
	5,293,545	3/8/94	Huber	359	111		
	5,283,686	2/1/94	Huber	359	337		
	5,271,024	12/14/93	Huber	372	6		
	5,257,124	10/26/93	Glaab et al.	359	124		
	5,243,609	9/7/93	Huber	372	9		
	5,222,089	6/22/93	Huber	372	6		
	5,212,579	5/18/93	Huber et al.	359	182		
	5,210,631	5/11/93	Huber et al.	359	132		
	5,208,819	5/4/93	Huber	372	32		
	5,200,964	4/6/93	Huber	372	26		
	5,187,760	2/16/93	Huber	385	37		
	5,166,821	11/24/92	Huber	359	238		
	5,159,601	10/27/92	Huber	372	6		
5,153,762	10/6/92	Huber	359	125			
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EXAMINER <i>Darlene Mendez</i>			DATE CONSIDERED <i>6/30/02</i>				

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EXAMINER'S INITIALS	PATENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DM	5,151,908	9/29/92	Huber	372	6	
	5,140,456	8/18/92	Huber	359	341	
	5,268,910	12/7/93	Huber	372	6	
	5,107,360	4/21/92	Huber	359	124	
	4,831,616	5/16/89	Huber	370	3	
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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>						
DM	✓	Sun, Y. et al., "80nm Ultra-Wideband Erbium-Doped Silicia Fibre Amplifier" ELECTRONICS LETTERS, November 6, 1997, Vol. 33, No. 23, pp. 1965-1967				
	✓	Wysocki, P.F. et al., "Broad-Band Erbium-Doped Fiber Amplifier Flattened Beyond 40nm Using Long-Period Grating Filter", IEEE PHOTONICS, Vol. 9, No. 10, October 10, 1997, pp. 1343-1345				
		Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY: LETTERS, Vol. 8, No. 7, July 7, 1996, pp. 879-881				
		Yamada, M. et al., "A Low-Noise and Gain-Flattened Amplifier Composed of a Silica-Based and a Fluoride-Based Er <sup>3+</sup> -Doped Fiber Amplifier in a Cascade Configuration", IEEE PHOTONICS LETTERS, Vol. 8, No. 5, May 1996, pp. 620-622				
		Ma, M.X. et al., "240-km Repeater Spacing in a 5280-km WDM System Experiment Using 8x2.5 Gb/s NRZ Transmission", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 6, June 1998, pp. 893-895				
	✓	Masuda, H. et al., "Ultrawide 75-nm 3-dB Gain-Band Optical Amplification with Erbium-Doped Fluoride Fiber Amplifiers and Distributed Raman Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 4, April 1998, pp. 516-518				
<b>EXAMINER</b> <u>Dorienne M. L. Boon</u> <b>DATE CONSIDERED</b> <u>6/30/02</u>						

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<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
dm	Masuda, H. et al., "Wide-Band and Gain Flattened Hybrid Fiber Amplifier Consisting of an EDFA and a Multiwavelength Pumped Raman Amplifier", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No.6, June 1999, pp. 647-649						
	Kawaii, S. et al., "Ultra-Wide, 75nm 3dB Gain-Band Optical Amplifier Utilising Gain-Flattened Erbium-Doped Fluoride Fibre Amplifier and Discrete Raman Amplification", ELECTRONIC LETTERS, Vol. 34, No. 9, April 30, 1998, pp. 897-898						
	Kawai, S. et al., "Ultrawide, 75nm 3dB Gain-Band Optical Amplifier Utilizing Erbium-Doped Fluoride Fiber and Raman Fiber", OFC TECHNICAL DIGEST, 1998						
	Kidorf, H. et al., "Pump Interactions in a 100-nm Bandwidth Raman Amplifier", IEEE ELECTRONICS TECHNOLOGY LETTERS, Vol. 11, No. 5, May 1999, pp.530-532						
	Ono, H. et al., "Gain-Flattened Er <sup>3+</sup> -Doped Fiber Amplifier for a WDM Signal in the 1.57-1.60- $\mu$ m Wavelength Region", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 9, No. 5, May 1997, pp.596-598						
	Hansen, P.B. et al., "529km Unrepeated Transmission at 2.488 Gbit/s Using Dispersion Compensation, Forward Error Correction, and Remote Post-and Pre-amplifiers Pumped By Diode-Pumped Raman Lasers", IEEE ELECTRONICS LETTERS ONLINE NO. 19951043, July 7, 1998						
	Guy, M.J. et al., "Lossless Transmission of 2ps Pulses Over 45km of Standard Fibre at 1.3 $\mu$ m Using Distributed Raman Amplification", ELECTRONICS LETTERS, Vol. 34, No.8, April 6, 1998, pp. 793-794						
	Dianov, E.M. et al., "Highly Efficient 1.3 $\mu$ m Raman Fibre amplifier", ELECTRONICS LETTERS, Vol. 34, No. 7, April 2, 1998, pp. 669-670						
	Chernikov, S.V. et al., "Raman Fibre Laser Operating at 1.24 $\mu$ m", ELECTRONICS LETTERS, Vol. 34, No.7, April 2, 1998, pp. 680-681						
EXAMINER	Darienne Montplaisir		DATE CONSIDERED		6/30/02		

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DM	5,734,665	03/31/98	Jeon et al.	372	6		
DM	6,052,393	04/18/00	Islam	372	6		
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DM	Liaw, S-K et al., "Passive Gain-Equilized Wide-Band Erbium-Doped Fiber Amplifier Using Samarium-Doped Fiber", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 8, No. 7, July 1996, pp. 879-881						
	Masuda, M. et al., "Wideband, Gain-Flattened, Erbium-Doped Fibre Amplifiers with 3dB Bandwidths of >50nm", ELECTRONICS LETTERS, Vol. 33, No. 12, June 5, 1997, pp. 1070-1072						
	Yang, F.S. et al., "Demonstration of Two-Pump Fibre Optical Parametric Amplification", ELECTRONICS LETTERS, Vol. 33, No. 21, October 9, 1997, pp. 1812-1813						
	Kawai, S. et al., "Wide-Bandwidth and Long-Distance WDM Transmission Using Highly Gain-Flattened Hybrid Amplifier", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 11, No. 7, July 1999, pp. 886-888						
	Paschotta, R. et al., "Ytterbium-Doped Fiber Amplifiers", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. 33, No. 7, July 1997, pp. 1049-1056						
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	Grubb, S.G. et al., "Fiber Raman Lasers Emit at Many Wavelengths", LASER FOCUS WORLD, February 1996, pp. 127-134						
	Mollenauer, L.F. et al., "Dispersion-Managed Solitons for Terrestrial Transmission", OPTICAL SOCIETY OF AMERICA, 1999						
	Hansen, S. L. et al., "Gain Limit in Erbium-Doped Fiber Amplifiers Due to Internal Rayleigh Backscattering", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 4, No.6, June 1992, pp. 559-561						
	Spirit, D.M. et al., "Systems Aspects of Raman Fibre Amplifiers", OPTICAL AMPLIFIERS FOR COMMUNICATION, Vol. 137, Pt. J, No. 4, August 1990, pp. 221-224						
	Mollenauer, L.F. et al., "Soliton Propagation in Long Fibers with Periodically Compensated Loss", IEEE JOURNAL OF QUANTUM ELECTRONICS, Vol. QE-22, No. 1, January 1986, pp. 157-173						
<b>EXAMINER</b> <i>Danielle Monahan</i>		<b>DATE CONSIDERED</b> <i>6/30/02</i>					

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pm	WO 98/20587	5/14/98	PCT	H01S	3/30		
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	0 936 761 A1	8/18/99	Europe	H04B	10/18	<input type="checkbox"/>	<input type="checkbox"/>
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
DM	Marhic, M.E. et al., "Cancellation of Stimulated-Raman-Scattering Cross Talk in Wavelength-Division-Multiplexed Optical Communication Systems by Series or Parallel Techniques", OPTICAL SOCIETY OF AMERICA, 1998, Vol. 15, No. 3, pp. 958-963						
	Hansen, P.B. et al., "Rayleigh Scattering Limitations in Distributed Raman Pre-Amplifiers", IEEE PHOTONICS TECHNOLOGY LETTERS, Vol. 10, No. 1, January 1998, pp. 159-161						
	Ikeda, M., "Stimulated Raman Amplification Characteristics in Long Span Single-Mode Silica Fibers", OPTICS COMMUNICATIONS, Vol. 39, No. 3, 1981, pp. 148-152						
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	Chinn, S.R. "Analysis of Counter-Pumped Small-Signal Fibre Raman Amplifiers", ELECTRONICS LETTERS, Vol. 33, No. 7, March 27, 1997, pp. 607-608						
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	Nissov, M. et al., "100 Gb/s (10x10Gb/s) WDM Transmission Over 7200 km Using Distributed Raman Amplification", CENTER FOR BROADBAND TELECOMMUNICATIONS, pp. 9-12						
	Takachio, N. et al., "32x10 Gb/s Distributed Raman Amplification Transmission with 50-GHz Channel Spacing in the Zero-Dispersion Region over 640km of 1.55-μm Dispersion-shifted Fiber", NTT LABS						
<b>EXAMINER</b> <i>Danielle M. Maitrean</i>			<b>DATE CONSIDERED</b> 6/30/02				

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